Table of flood stages in July 1935

[All dates are in July unless otherwise specified]

Table	oj	flood	stages	n	July	1935	Contin	ued
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[All dates are in July unless otherwise specified]

River and station		A bove flood stages—dates		Crest		River and station	Flood	Above flood stages—dates		Crest	
		From-	То	Stage Date			stage	From	То—	Stage	Date
ATLANTIC SLOPE DRAINAGE Lackawaxen: Hawley, Pa Lehigh: Lehighton, Fa Schuylkill: Reading, Pa Chemung: Corning, N. Y	Feet 6 9 7 16	10 10 9 8	10 10 11 9	Feet 6. 8 13. 0 15. 8 20. 15	10 10 10 8	Arkansas Basin Arkansas: Fort Lyon, Colo	Feet 5 22	22 2	22 2	Feet 5. 9 22. 5	22 2
Susquehanna: Oneonta, N. Y Bainbridge, N. Y. Binghamton, N. Y. Towanda, Pa.	12 11 14 16	8 8 9 9	11 10 10 10	16. 7 18. 5 17. 7 21. 0	8 8 9	Red: Grand Ecore, LaAlexandria, LaLower Mississippi Basin	33 32	May 26 May 8	4 11	35. 7 41. 3	June 1
Wilkes-Barre, Pa	22 12 14	10 16 22	11 17 27	25. 6 12. 1 15. 8	10 17 26, 27	Mississippi: Vicksburg, Miss Natchez, Miss Angols, La Baton Rouge, La Donaldsonville, La	43 46 45 35	June 8 June 1 May 31 May 30	12 17 19 20	44.7 49.3 48.0 38.4	4, 5 4-7 4-10 5-11
Upper Mississippi Basin Mississippi: Keokuk, Iowa Quincy, Ill	12 14	6 7	8 8	13. 0 14. 4	7 7,8	Donaldsonville, La. Reserve, La. New Orleans, La. Atchafalaya Basin	28 22 17	June 5 June 8	19 17 13	30. 0 23. 6 17. 4	6-11 9-11 8, 9
Hannibal, Mo. Louisiana, Mo. Alton, III. Chester, III.	13 12 21 27	1 2 1 1	10 7 7	14. 4 12. 1 22. 0 27. 7	8 8 4 2	Atchafalaya: Simmasport, La	41 37 22	June 4 May 20 Mar. 15	16 20 28	42. 5 39. 6 24. 7	5–10 4–11 11–15
Missouri Basin Solomon: Niles, Kahs Smoky Hill:	24	3	3	24. 4	3	WEST GULF OF MEXICO DRAINAGE Trinity: Liberty, Tex	25	3	12	25. 9	9
Lindsborg, Kans Salina, Kans Enterprise, Kans	21 20 26	$\left\{\begin{array}{c} \frac{4}{2} \\ \frac{6}{4} \end{array}\right.$	4 3 6 6	23. 6 21. 0 20. 0 27. 2	4 3 6 5	• Flood continued into August.	15	29	(*)	18. 6	30
Ohio Basin			_		_						
Tuscarawas: Coshocton, OhioLittle Miami: Kings Mills, Ohio	11 17	5 25	5 25	11.5	5 25						

WEATHER OF THE ATLANTIC AND PACIFIC OCEANS

[The Marine Division, W. F. McDonald, in Charge]

NORTH ATLANTIC OCEAN, JULY 1935

By H. C. HUNTER

Atmospheric pressure.—The pressure during July averaged greater than normal over most of the North Atlantic Ocean, notably in the region of the British Isles; in the north central and northwestern parts the pressure was less than normal, especially near Iceland, where Reykjavik averaged 0.25 inch less. In the Gulf of Mexico, and eastward to the Bahamas and Bermuda, the pressure was a little less than normal.

Of trustworthy pressure readings so far reported, the highest is 30.61 inches, on the 4th, on the Japanese steamship Glasgow Maru, near 48° N., 8° W.; the lowest is 29.23 inches, on the American steamship Tuscaloosa City, at 8 a. m., the 13th, near 52° N., 53° W. Table 1 indicates that lower readings that that of the Tuscaloosa City were noted at Julianehaab and Reykjavik.

Table 1.—Averages, departures, and extremes of atmospheric pressure (sea level) at selected stations for the North Atlantic Ocean and its shores, July 1935

Station	Average pressure	Depar- ture	High- est	Date	Low- est	Date
Julianchaab, Greenland keykjavik, Iceland Lerwick, Shetland Islands Valencia, Ireland Lisbon, Portugal Madeira Horta, Azores. Belle Isle, Newfoundland Halifax, Nova Scotia. Nantucket. Hatteras. Bermuda Turks Island Key West. New Orleans.	29. 91 30. 17 30. 08 30. 09 30. 34 29. 86 30. 04 30. 00 30. 03 30. 17 30. 05	-0. 25 +111 +19 +.04 +.07 01 +.09 +.02 01 02 02 02	Inches 29, 94 30, 14 30, 27 30, 41 30, 16 30, 19 30, 50 30, 20 30, 36 30, 38 30, 30, 10 30, 12 30, 15	28 29 19 125 3, 4, 12 8 25, 26 8, 16 18 18 18 18 19 30	Inches 29, 22 29, 02 29, 41 29, 57 39, 93 20, 96 30, 07 29, 60 29, 67 29, 69 30, 04 29, 95 32 29, 75	111 155 286 199 188 200 311 133 31 31 86, 29, 30 167 7

NOTE.—All data based on a. m. observations only, with departures compiled from best available normals related to time of observations, except Hatteras, Key West, Nantucket, and New Orleans, which are 24-hour corrected means.

Cyclones and gales.—As usual in midsummer, there was little storminess in the extra-tropical regions. periods of the month, however, deserve comment:

About the 10th there was a marked fall of pressure near that portion of the 50th parallel of latitude from the Grand Banks to somewhat eastward of mid-ocean; and strong gradients were found near the chief steamship routes, although the actual center of low-pressure was, for several days, near Iceland or southern Greenland. Several steamships reported gales, mainly near the 50th

parallel and on the 10th, 11th, or 12th.

On the 28th a considerable fall of pressure occurred over a small area not far to the eastward of Hatteras. The pressure changes on this day presumably were connected with the local downpour noted in waters east of South Carolina, which is described below. A well-marked center of comparatively small size advanced northeastward, increasing in strength, and for the 29th there are 5 gale reports for the waters just southeast of Nova Scotia, 2 of these estimating the force as whole gale (10). This Low then turned in its course somewhat to northward, and quickly ceased to affect the main vessel lanes.

No tropical storm occurred in Atlantic waters during July. There were, however, 6 different reports of winds of force 6 to 8; all save 1 were encountered in the Caribbean Sea, and 4 of them occurred during the second week of July. The contrast between high pressure of the Azores region and low pressure near the equator was clearly the cause of these winds, which were of the nature of intensified trades.

Fog.—There was much more fog than normal during July. From the 45th meridian to the coasts of Europe, fog was considerably more prevalent than it had been during June. The area from 45° to 50° N. and 30° to 40° W. had fog on 14 days. There was less in the region nearer to the European coasts, where the highest incidence was in the square from 45° to 50° N., 10° to 15° W., which had a count of 10 days.

In the Gulf of St. Lawrence and close to Newfoundland less fog was encountered than during June; but over the Grand Banks and to the southwestward and westward to Cape Cod about as much as during June. The square from 40° to 45° N., 65° to 70° W., had 26 days of fog-every day from the 6th to 26th inclusive furnished at least one report. Southwest of Nantucket, fog was distinctly less common than it had been during June, and none has been reported anywhere south of the 35th parallel.

Downpour.—From the American steamer Mariana. Capt. C. Zeuthen, an interesting report about torrential rain encountered on a voyage from Philadelphia to Tampa has been received from the observer, Second Officer R. C. Spaulding:

July 28, 1935, at 1:30 to 2:00 a.m., local mean time, in latitude 32°10′ N., longitude 79°20′ W., encountered a torrential downpour of rain, so heavy it reduced visibility to nothing. It fell pour of rain, so heavy it reduced visibility to nothing. It fell straight down and spattered to a height of 3 or 4 feet off the deck. It was actually difficult to breathe standing out in it. The whistle when sounded made a gurgling sound, as if under water. The decks were filled to the "gunnels", water streaming everywhere. Lightning was observed, though barely visible through the murk; continuous loud thunder was heard. There was very little wind, mostly westerly. It was, no doubt, a "cloudburst."

NORTH PACIFIC OCEAN, JULY 1935

By WILLIS E. HURD

Atmospheric pressure.—Almost normal barometric conditions prevailed over the North Pacific Ocean during July 1935. Most of the eastern part of the ocean was dominated by the usual high-pressure area, within which few cyclonic disturbances occurred. The Aleutian Low on the average lay over the northwestern part of the ocean and the Bering Sea. Pressure was low throughout Asiatic waters, with the center on the average off the southeast coast of China (mean at Hong Kong, 29.59 inches). The greatest departure from the monthly normal, as shown in table 1, was -0.06 inches, at Guam.

OCEAN GALES AND STORMS, JULY 1935

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barom-	Gale ended	Low- est ba-	Direc- tion of wind	Direction and force of wind	Direc- tion of wind	Direction and high-	Shifts of wind near time
* ONFOI	From-	То—	Latitude	Longitude	July-		July—	rom- eter	when gale began	at time of lowest barometer	when gale ended	est force of wind	of lowest barometer
NORTH ATLANTIC OCEAN			o ,	0 /				Inches		•			
Waukegan, Am. S. S Betterton, Am. S. S Sanyo Maru, Jap. M. S.	New York Puerto Colom-	New York Houston New York	44 57 N. 35 38 N. 12 10 N.	41 12 W. 75 08 W. 75 20 W.	5 8 9	10p, 6 6p, 8 4a, 9	7 9 10		SW SW NNE	SW, 8 SW, 7 NNE, 7	W SW ENE	SW, 8 SW, 8 ENE, 8	SW-W. SSW-SW.
New York, Ger. S. S Collamer, Am. S. S Montreal City, Br. S. S. Laganbank, Br. M. S Mopan, Br. S. S S. B. Hunt, Am. S. S Winona County, Am.	bia. Cherbourg Havre. Fowey Algiers Jamaica Cartagena. Dundee	dodoPhiladelphiaBostonAvoumouthArubaBoston	42 28 N. 48 36 N. 50 40 N. 38 36 N. 49 12 N. 2 11 15 N. 2 57 59 N.	51 40 W. 29 04 W. 30 45 W. 55 42 W. 23 05 W. 75 08 W. 20 42 W.	10 10 11 10 11 14 14	4p, 10 11p, 10 5a, 11 8a, 11 11a, 12 4p, 14	11 11 14	29, 62 29, 55 29, 48 29, 98 29, 47 29, 70 29, 72	SW SSW SW SSW NE SW	W, 7. SW, 8 SSW, 8 SW, 9 SSW, 6 NE, 7 SW, 5	SW SW W SSW NE SW	SW, 9 SW, 8 SSW, 8 SW, 9 SSW, 8 NE, 7 SSW, 9	SW-W-WNW. SSW-NW. SW-WSW. SW-SSW-WNW. None. SW-W.
S. S. Fred W. Weller, Am. S. S.	Cartagena	Aruba	11 42 N. 38 26 N.	74 00 W. 64 26 W.	19 26	4a, 20	19 27	29. 85 29. 95	ENE	ENE, 4		ENE, 6	ENE-E. SW-NW-N.
New Brunswick, Br. S. S. Yselhaven, Du. S. S Maasdam, Du. S. S Silvercypress, Br. M. S	Rotterdam	Norfolk New York Halifax	² 41 33 N. 42 04 N. 42 56 N.	61 49 W. 61 17 W. 59 50 W.	28 29 29	9p, 26 4p, 29 6p, 29 10p, 29	29 29	29. 34 1 29. 19 29. 61	SE SSE S	WSW, 10	WSW		SE-WSW-W. SSE-SW. S-SSW.
NORTH PACIFIC OCEAN	Tay at the same of	25	10 (0)	104 90 TV	,	F- 1	,	00.60	o re	N. O	o re	0077 0	MEGE
City of San Diego, Am. M. S. M. S. Grays Harbor, Am. S. S. Silverash, Br. M. S. Oregon, Am. S. S. Silverbelle, Br. M. S. Oregon, Am. S. S. General Lee, Am. S. S.	San Francisco Maniladododo	Manzanillo Yokohama Manila Los Angeles do Yokohama	18 40 N. 51 48 N. 20 50 N. 44 14 N. 2 39 14 N. 36 06 N. 51 40 N.	104 20 W. 170 45 W. 142 30 E. 154 W. 145 07 W. 124 35 W. 171 15 W.	1 2 10 11 17 22	5a, 1 8a, 2 3a, 3 10p, 11 4p, 11 6p, 18 4p, 22	1 2 3 11 12 18 22	29. 82 29. 32 29. 79 29. 70 29. 82 29. 91 29. 56	SE SSE N SSW NNF SSW	S, 8 S, 8 NW, 5 S, 7 N, 8 SW, 8	LN '	SSE, 8 S, 9 N, 8 SSW, 9 N, 9	N-E-SE. SSE-SSW. SSE-SSW. N-NW. S-SSW. None. SSW-SW.